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(11) Publication number:

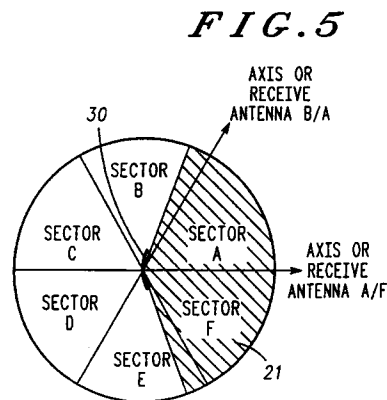
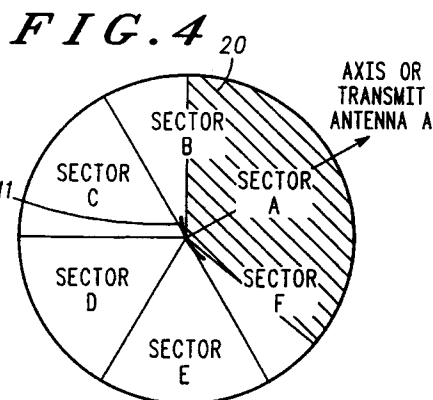
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EUROPEAN PATENT APPLICATION(21) Application number: **93115316.7**(51) Int. Cl.⁶: **H04B 7/02, H04Q 7/36**(22) Date of filing: **23.09.93**(30) Priority: **03.10.92 GB 9220823**(43) Date of publication of application:
13.04.94 Bulletin 94/15(84) Designated Contracting States:
AT DE ES FR GB NL SE(88) Date of deferred publication of the search report:
08.03.95 Bulletin 95/10(71) Applicant: **MOTOROLA LTD**
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Motorola
European Intellectual Property
Midpoint
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Basingstoke, Hampshire RG21 1PL (GB)(54) **Sectorized cellular radio base station antenna.**

(57) A sectorized cellular radio base station antenna is provided comprising: a plurality (e.g. six) of angularly separated directional transmit antennas (11), each transmit antenna having a central access of transmission, for serving mobile units located in sectors centred on the axis of transmission of the transmit antennas; a plurality (e.g. six) of angularly separated directional receive antennas (30), each having a central axis of reception; and diversity combining

means for combining signals from adjacent receive antennas. The central axis of the receiving antennas are at an angular offset to the central axis of the transmit antennas and, for a mobile in a given sector served by a given transmit antenna, the diversity combining means are arranged to combine the signals from the two receive antennas the axes of which lie on either side of that transmit antenna axis.

**EP 0 591 770 A3**



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EUROPEAN SEARCH REPORT

Application Number
EP 93 11 5316

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.5)
P,Y	WO-A-93 12586 (DETECON DEUTSCHE TELEPOST CONSULTING GMBH.) * abstract; figures 1,2 * * page 11, line 21 - line 25 * * page 12, line 10 - line 18 * ---	1	H04B7/02 H04Q7/36
Y	EP-A-0 429 200 (GEC-MARCONI LTD.) * figure 6 * * column 9, line 29 - line 32 * ---	1	
A	US-A-4 727 590 (KAWANO ET AL.) * abstract; figures 3A,3B,6 * * column 3, line 3 - line 7 * ---	1	
A	US-A-4 369 520 (CERNY, JR. ET AL.) * abstract; figure 1 * * column 3, line 5 - line 16 * ---	1-3,6,7	
A	WO-A-88 08140 (M/A-COM, INC.) * the whole document * -----		
			TECHNICAL FIELDS SEARCHED (Int.Cl.5)
			H04B H04Q
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 19 December 1994	Examiner Danielidis, S
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document			